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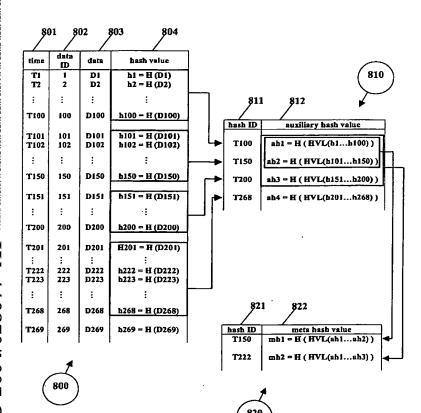
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(54) Title: METHODS AND SYSTEMS FOR PROVIDING A SECURE DATA DISTRIBUTION VIA PUBLIC NETWORKS



(57) Abstract: A server in a public key system stores a list of fingerprints of digital data. Another fingerprint is computed for this list of fingerprints and provided to a client terminal. A client terminal in a public key system obtains a list of fingerprints of digital data from a first source in this system. The client terminal further obtains a fingerprint for that list of fingerprints from a first source as well as from a second source for comparing both obtained fingerprints.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L9/32

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 HO4L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

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X A	EP 0 940 945 A (AT & T CORP) 8 September 1999 (1999-09-08) column 1, line 12 - line 22	1,2,23, 24
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A	US 2002/073310 A1 (IBM CORPORATION) 13 June 2002 (2002-06-13) abstract paragraph '0051! - paragraph '0053!; figure 4	1,2
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 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
9 February 2004	2 3. 02. 2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Dujardin, C

Application No 03/07829

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X	US 2001/055395 A1 (VOGLER DEAN H) 27 December 2001 (2001-12-27) abstract paragraph '0011! - paragraph '0020! figures 1-4	41-44
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees,

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-40

Computing/obtaining the fingerprint of a list of fingerprints of digitally encoded data in a public key system

2. Claims: 41-72

Preventing cryptographic operations (encryption, decryption or signature) in a public key system by preventing the use of the private or of the public key of a first key pair and replacing the first key pair by a second key pair for executing the cryptographic operations.

3. Claims: 73-104

Layered asymmetric encryption of digital data or layered digital signature of hashed digital data in a data distribution system

4. Claims: 105-139

Using the hash value of a random token and of a fixed random value as a key for symmetric encryption/decryption

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